TABLE 35

Preliminary federal obligations for applied research, by agency and field of R&D: FY 2022

(Dollars in thousands)

| Agency   | Total      | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life<br>sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
|--|------------|-----------------------------------|---|------------------|----------------------------|-------------------|------------|-----------------|-------------|--------------|
| All agencies   | 44,673,778 | 3,493,397                         | 2,483,997   | 19,323,075       | 196,748                    | 2,374,856         | 1,846,335  | 907,402         | 10,629,283  | 3,418,685    |
| Departments  |            |                                   |   |                  |                            |                   |            |                 |             |              |
| Department of Agriculture                                  | 1,558,776  | 17,197                            | 24,313  | 1,093,818        | 8,614                      | 55,909            | 14,129     | 187,506         | 57,585      | 99,707       |
| Agricultural Marketing Service                             | 7,484      | 0                                 | 0   | 7,484            | 0                          | 0                 | 0          | 0               | 0           | C            |
| Agricultural Research Service                              | 639,600    | 831                               | 0   | 590,415          | 0                          | 41,062            | 0          | 1,535           | 5,756       | C            |
| Economic Research Service                                  | 90,389     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 90,389          | 0           | (            |
| Forest Service   | 194,781    | 0                                 | 2,200   | 153,764          | 0                          | 2,639             | 0          | 30,887          | 5,291       | (            |
| National Agricultural Statistics<br>Service                | 6,327      | 6,327                             | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | (            |
| National Institute of Food and<br>Agriculture              | 619,681    | 10,039                            | 21,813  | 341,940          | 8,614                      | 12,208            | 14,129     | 64,695          | 46,538      | 99,707       |
| Natural Resources Conservation<br>Service                  | 514        | 0                                 | 300   | 214              | 0                          | 0                 | 0          | 0               | 0           | (            |
| Department of Commerce                                     | 1,473,125  | 189,765                           | 666,405   | 91,039           | 10,664                     | 88,569            | *          | 100,956         | 285,073     | 40,61        |
| Census Bureau  | 110,367    | 16,146                            | 0   | 0                | 7,139                      | 0                 | 0          | 87,081          | 0           | (            |
| National Institute of Standards and<br>Technology          | 530,008    | 169,050                           | 6,774   | 26,853           | 1,240                      | 58,879            | *          | 399             | 266,532     | 240          |
| National Oceanic and Atmospheric Administration            | 825,550    | 4,568                             | 659,630   | 64,186           | 2,284                      | 29,690            | 0          | 13,476          | 11,341      | 40,375       |
| National Telecommunications and Information Administration | 7,200      | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 7,200       | (            |
| Department of Defense                                      | 7,400,607  | 2,182,561                         | 412,807   | 824,285          | 340                        | 384,358           | 75,263     | 9,047           | 2,841,838   | 670,109      |
| Defense Advanced Research Projects<br>Agency               | 1,483,950  | 730,193                           | 57,596  | 222,316          | 340                        | 40,732            | 13,258     | 186             | 316,036     | 103,294      |
| Defense Health Agency                                      | 158,831    | 0                                 | 0   | 157,161          | 0                          | 0                 | 67         | 0               | 0           | 1,602        |
| Department of the Air Force                                | 1,697,363  | 164,527                           | 0   | 73,241           | 0                          | 205,030           | 0          | 0               | 1,209,288   | 45,27        |
| Department of the Army                                     | 1,502,296  | 851,666                           | 9,269   | 232,624          | 0                          | 5,022             | 56,671     | 0               | 0           | 347,044      |
| Department of the Navy                                     | 1,229,568  | 136,818                           | 345,752   | 21,139           | 0                          | 36,574            | 3,608      | 1,787           | 636,685     | 47,204       |
| Other defense agencies                                     | 1,328,599  | 299,356                           | 190   | 117,803          | 0                          | 96,999            | 1,658      | 7,074           | 679,829     | 125,689      |
| Department of Education                                    | 260,178    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 260,178      |
| Department of Energy                                       | 4,523,208  | 763,254                           | 75,749  | 38,244           | 2,113                      | 1,411,163         | 0          | 0               | 2,221,135   | 11,550       |
| Advanced Research Projects Agency<br>—Energy               | 225,000    | 21,888                            | 2,262   | 37,489           | 0                          | 0                 | 0          | 0               | 163,362     | (            |
| Electricity Delivery and Energy<br>Reliability             | 59,361     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 59,361      | (            |
| Energy Efficiency and Renewable<br>Energy                  | 677,946    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 677,946     | C            |

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(Dollars in thousands)

| Agency  | Total      | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life<br>sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
|---|------------|-----------------------------------|---|------------------|----------------------------|-------------------|------------|-----------------|-------------|--------------|
| Environmental Management  | 11,550     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 11,550       |
| Fossil Energy   | 736,176    | 0                                 | 69,937  | 0                | 0                          | 117,052           | 0          | 0               | 549,187     | C            |
| National Nuclear Security Administration                            | 2,403,869  | 662,884                           | 3,550   | 755              | 2,113                      | 1,294,111         | 0          | 0               | 440,456     | C            |
| Defense Programs  | 2,257,778  | 642,993                           | 0   | 0                | 0                          | 1,178,976         | 0          | 0               | 435,808     | (            |
| Office of Defense Nuclear<br>Nonproliferation                       | 146,092    | 19,891                            | 3,550   | 755              | 2,113                      | 115,135           | 0          | 0               | 4,647       | C            |
| Nuclear Energy  | 330,824    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 330,824     | С            |
| Office of Cybersecurity, Energy<br>Security, and Emergency Response | 78,481     | 78,481                            | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | C            |
| Department of Health and Human<br>Services                          | 21,258,821 | 49,302                            | 246,548   | 15,444,314       | 165,893                    | 113,017           | 1,738,707  | 399,678         | 1,371,745   | 1,729,618    |
| Administration for Children and Families                            | 4,265      | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 4,265           | 0           | C            |
| Administration for Community Living                                 | 110,863    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 110,863         | 0           | C            |
| Agency for Healthcare Research and Quality                          | 314,345    | 49,189                            | 0   | 172,974          | 0                          | 0                 | 7,799      | 20,813          | 803         | 62,767       |
| Agency for Toxic Substances and Disease Registry                    | 10,935     | 0                                 | 10,935  | 0                | 0                          | 0                 | 0          | 0               | 0           | C            |
| Centers for Disease Control and<br>Prevention                       | 552,086    | 113                               | 0   | 477,039          | 337                        | 2,439             | 1,025      | 41,423          | 21,327      | 8,383        |
| Food and Drug Administration  | 669,007    | 0                                 | 0   | 669,007          | 0                          | 0                 | 0          | 0               | 0           | C            |
| Health Resources and Services<br>Administration                     | 34,790     | 0                                 | 0   | 34,790           | 0                          | 0                 | 0          | 0               | 0           | C            |
| National Institutes of Health                                       | 19,545,031 | 0                                 | 235,612   | 14,090,505       | 165,556                    | 110,579           | 1,729,882  | 222,314         | 1,349,615   | 1,640,968    |
| Office of the Secretary of Health and<br>Human Services             | 17,500     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 17,500       |
| Office of the Assistant Secretary for<br>Planning and Evaluation    | 17,500     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 17,500       |
| Department of Homeland Security                                     | 248,069    | 83,878                            | 0   | 9,622            | 0                          | 16,525            | 0          | 0               | 64,939      | 73,105       |
| Coast Guard   | 2,243      | 763                               | 0   | 67               | 0                          | 0                 | 0          | 0               | 1,413       | С            |
| Countering Weapons of Mass<br>Destruction Office                    | 24,324     | 5,969                             | 0   | 9,555            | 0                          | 8,799             | 0          | 0               | 0           | (            |
| Cybersecurity and Infrastructure<br>Security Agency                 | 3,502      | 2,709                             | 0   | 0                | 0                          | 0                 | 0          | 0               | 793         | C            |
| Science and Technology Directorate                                  | 216,000    | 74,436                            | 0   | 0                | 0                          | 7,726             | 0          | 0               | 62,733      | 71,105       |
| Transportation Security Administration                              | 2,000      | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 2,000        |

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(Dollars in thousands)

| Agency   | Total   | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life<br>sciences | Mathematics and<br>statistics | Physical<br>sciences | Psychology | Social sciences | Engineering | Other<br>fields |
|--|---------|-----------------------------------|---|------------------|-------------------------------|----------------------|------------|-----------------|-------------|-----------------|
| Department of the Interior                             | 817,025 | 0                                 | 697,716   | 67,293           | 0                             | 0                    | 0          | 16,498          | 35,518      | С               |
| Bureau of Indian Affairs                               | 4,000   | 0                                 | 0   | 4,000            | 0                             | 0                    | 0          | 0               | 0           | С               |
| Bureau of Land Management                              | 8,579   | 0                                 | 0   | 8,579            | 0                             | 0                    | 0          | 0               | 0           | C               |
| Bureau of Ocean Energy                                 |         |                                   |   |                  |                               |                      |            |                 |             |                 |
| Management   | 67,918  | 0                                 | 67,918  | 0                | 0                             | 0                    | 0          | 0               | 0           | C               |
| Bureau of Reclamation                                  | 21,500  | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 21,500      | C               |
| Bureau of Safety and Environmental<br>Enforcement      | 14,018  | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 14,018      | C               |
| Fish and Wildlife Service                              | 32,650  | 0                                 | 0   | 32,650           | 0                             | 0                    | 0          | 0               | 0           | C               |
| Geological Survey                                      | 641,138 | 0                                 | 629,798   | 11,340           | 0                             | 0                    | 0          | 0               | 0           | C               |
| National Park Service                                  | 27,222  | 0                                 | 0   | 10,724           | 0                             | 0                    | 0          | 16,498          | 0           | C               |
| Department of Justice                                  | 74,032  | 2,148                             | 474   | 3,395            | 396                           | 6,220                | 0          | 50,714          | 5,078       | 5,605           |
| Bureau of Prisons                                      | *       | 0                                 | 0   | 0                | 0                             | 0                    | 0          | *               | 0           | C               |
| Federal Bureau of Investigation                        | 5,396   | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 0           | 5,396           |
| Office of Justice Programs                             | 68,634  | 2,148                             | 474   | 3,395            | 396                           | 6,220                | 0          | 50,712          | 5,078       | 209             |
| Department of Labor                                    | 3,803   | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 3,803           | 0           | C               |
| Employee Benefits Security Administration              | 1,569   | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 1,569           | 0           | C               |
| Occupational Safety and Health                         |         |                                   |   |                  |                               |                      |            |                 |             |                 |
| Administration   | 2,234   | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 2,234           | 0           |                 |
| Department of State                                    | 40,000  | 0                                 | 0   | 38,000           | 0                             | 0                    | 0          | 2,000           | 0           | С               |
| Department of Transportation                           | 803,325 | 16,566                            | 16,160  | 18,397           | 5,167                         | 14,090               | 18,187     | 12,518          | 696,208     | 6,033           |
| Federal Aviation Administration                        | 271,685 | 13,349                            | 15,989  | 8,093            | 5,167                         | 0                    | -,         | 0               | -7          | 1,011           |
| Federal Highway Administration                         | 361,044 | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 361,044     | C               |
| Federal Motor Carrier Safety<br>Administration         | 14,100  | *                                 | 0   | 0                | 0                             | 14,090               | 0          | 0               | 0           | C               |
| Federal Railroad Administration                        | 42,112  | 0                                 | 171   | 0                | 0                             | 0                    | 171        | 0               | 41,770      | C               |
| Federal Transit Administration                         | 33,000  | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 3,000           | 25,000      | 5,000           |
| National Highway Traffic Safety<br>Administration      | 50,000  | 3,207                             | 0   | 10,304           | 0                             | 0                    | 0          | 9,518           | 26,971      | C               |
| Office of the Secretary of<br>Transportation           | 15,022  | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 15,000      | 7               |
| Pipeline and Hazardous Materials Safety Administration | 16,363  | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 16,363      | (               |
| Department of the Treasury                             | 44,134  | 0                                 | 0   | 0                | 0                             | 44,081               | 0          | 0               | 53          | (               |
| Bureau of Engraving and Printing                       | 44,081  | 0                                 | 0   | 0                | 0                             | 44,081               | 0          | 0               | 0           | (               |
| Mint   | 53      | 0                                 | 0   | 0                | 0                             | 0                    | 0          | 0               | 53          | (               |

TABLE 35

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| Agency   | Total     | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life<br>sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other<br>fields |
|--|-----------|-----------------------------------|---|------------------|----------------------------|-------------------|------------|-----------------|-------------|-----------------|
| Department of Veterans Affairs                               | 1,002,408 | 0                                 | 0   | 1,002,408        | 0                          | 0                 | 0          | 0               | 0           | 0               |
| Other agencies   |           |                                   |   |                  |                            |                   |            |                 |             |                 |
| Administrative Office of the U.S. Courts                     | 1,443     | 1,443                             | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 0               |
| Agency for Global Media                                      | 7,884     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 7,884           | 0           | 0               |
| Agency for International Development                         | 51,211    | 0                                 | 0   | 43,631           | 0                          | 0                 | 0          | 4,331           | 0           | 3,250           |
| Appalachian Regional Commission                              | 122       | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 122             | 0           | 0               |
| Consumer Product Safety Commission                           | 440       | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 440         | 0               |
| Environmental Protection Agency                              | 406,371   | 5,566                             | 167,490   | 160,542          | 3,090                      | 9,703             | 0          | 2,348           | 57,633      | 0               |
| Federal Trade Commission                                     | 8,571     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 8,571           | 0           | 0               |
| Library of Congress  | 493       | 0                                 | 0   | 0                | 0                          | 493               | 0          | 0               | 0           | 0               |
| National Aeronautics and Space<br>Administration             | 3,009,641 | 0                                 | 159,671   | 0                | 0                          | 208,808           | 0          | 0               | 2,526,071   | 115,091         |
| National Science Foundation                                  | 986,305   | 181,719                           | 16,665  | 6,623            | 471                        | 21,920            | *          | 2,867           | 359,167     | 396,864         |
| Nuclear Regulatory Commission                                | 78,147    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 78,147      | 0               |
| Patient-Centered Outcomes Research<br>Trust Fund             | 481,465   | 0                                 | 0   | 481,465          | 0                          | 0                 | 0          | 0               | 0           | 0               |
| Postal Service   | 15,702    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 15,702      | 0               |
| RESTORE Act Centers of Excellence<br>Research Grants Program | 6,960     | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 0           | 6,960           |
| Social Security Administration                               | 98,560    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 98,560          | 0           | 0               |
| Tennessee Valley Authority                                   | 12,952    | 0                                 | 0   | 0                | 0                          | 0                 | 0          | 0               | 12,952      | 0               |

<sup>\* =</sup> amount greater than \$0 but less than \$50,000.

## Note(s)

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table. As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

## Source(s)

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.